

AN 1994-228699 JAPIO  
 TI HYDROGEN STORAGE ALLOY  
 IN TSUKAHARA MAKOTO; TAKAHASHI KUNIO; MISHIMA TAKAHIRO; ISOMURA AKITO; UEHARA  
 HITOSHI; OGURO KEISUKE; SAKAI TETSUO; MIYAMURA HIROSHI; KURIYAMA NOBUHIRO  
 PA IMURA ZAIRYO KAIHATSU KENKYUSHO:KK  
 AGENCY OF IND SCIENCE & TECHNOL  
 PI **JP 06228699 A** 19940816 Heisei  
 AI JP 1993-18634 (JP05018634 Heisei) 19930205  
 PRAI JP 1993-18634 19930205  
 SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1994  
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 AB PURPOSE: To produce a hydrogen storage alloy remarkably improved in the  
 amt. of hydrogen to be occluded, plateau properties, response  
 characteristics to the change of hydrogen pressure or the like, in a  
 hydrogen storage alloy constituted of Ti, V and Ni, by prescribing each  
 content of Ti, V and Ni.  
 CONSTITUTION: In a hydrogen storage alloy expressed by the general  
 formula:  $Ti_xV_yNi_z$ , the compsn. (x) of Ti, the  
 compsn. (y) of V and the compsn. (z) of Ni are limited to the range  
 surrounded by the A point in th figure:  $Ti_5V_{90}Ni_5$ ,  
 B, the B point:  $Ti_5V_{75}Ni_{20}$ , the C point:  
 $Ti_{30}V_{50}Ni_{30}$  and the D point:  
 $Ti_{30}V_{65}Ni_5$  (namely, by atom,  $5\% \leq x \leq 30\%$ ,  
 $50\% \leq y \leq 90\%$  and  $5\% \leq z \leq 20\%$ ). Moreover, the range surrounded by the E  
 point:  $Ti_{25}V_{65}Ni_{10}$ , the F point:  
 $Ti_{15}V_{75}Ni_{10}$ , the G point:  
 $Ti_{15}V_{67.5}Ni_{17.5}$  and the H point:  
 $Ti_{25}V_{57.5}Ni_{17.5}$  (namely,  $15\% \leq x \leq 25\%$ ,  
 $57.5\% \leq y \leq 75\%$  and  $10\% \leq z \leq 17.5\%$ ) is preferably regulated. In this way, the  
 hydrogen storage alloy used for the hydrogen occlusion electrode of an  
 alkali secondary battery or the like can be obt'd.  
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